

Rec'd PTO

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## CLAIMS

1. A method for the reduction of liquefaction potential of foundation soils,  
5 comprising the steps of drilling holes (1) at a distance to each other, and  
injecting expansive resins filling the voids and compacting it, thus  
obtaining a strong and compact foundation soil with reduced liquefaction  
potential.
- 10 2. The method of claim 1 wherein the holes are drilled vertically or at any  
angle with the vertical.
3. The method of claim 1 wherein the liquefaction potential is reduced at any  
depth.
- 15 4. The method of claims 1 to 3 wherein, the method is controlled by laser  
equipments or other sensitive measurement gages.
5. The method of claim 1 wherein the holes are drilled at any distance from  
20 each other.
6. The method of claims 1 to 5 wherein holes are drilled at the same or  
different diameters.
- 25 7. The method of claims 1 to 6 wherein holes are protected .
8. The method of claims 1 to 7 wherein the expansive grout is applied  
uniformly.
- 30 9. The method of claims 1 to 8 wherein liquefaction reduction is made at the  
same or at different degrees at different depths.

10. The method of any of the claims above, wherein the liquefaction reduction is made with no limitation of the depth below ground level.
- 5 11. The method of claims 1 to 10, wherein expansive grout is performed at time intervals.
12. The method of claims 1 to 11, wherein liquefaction reduction is made in any type of dry or wet clay silt sand soil or rock, or water content
- 10 without limitation.
13. The method of claims 1 to 12, wherein the ground may be disturbed, remoulded by earthquake or any kind of vibration for any kind of soil or
- 15 , rock.